

HOMESURE wShield Bitu Champ

Water-based bitumen protective coating — Champ variant



HOMESURE wShield Bitu Champ

Water-based bitumen protective coating — Champ variant

PRODUCT DESCRIPTION:

- **Homesure wShield Bitu Champ** is a single-component, cold-applied water-based bitumen protective coating for damp-proofing, maintenance, refurbishment and surface protection applications on suitably prepared substrates
- It cures to form a seamless protective film with enhanced flexibility and accommodates normal substrate movement under typical service conditions

KEY FEATURES:

- Single-component, cold-applied coating
- Water-based bitumen protective coating
- Forms a seamless protective film
- Flexible cured coating with enhanced flexibility, accommodating normal substrate movement under typical service conditions
- Good adhesion to concrete, masonry, metal, wood and sound asphalt- or bitumen-based roofing felt surfaces
- Good resistance to normal atmospheric exposure under typical service conditions
- No heating or hot works required
- Suitable for brush, roller, broom or spray application

TYPICAL USES:

- Maintenance and refurbishment, damp-proofing and moisture-resistant protective applications on concrete, masonry, metal, wood and sound asphalt- or bitumen-based roofing felt surfaces
- Protective coating for foundations and substructures in non-structural, non-hydrostatic applications
- External walls and exposed concrete surfaces where a more flexible coating is required

SUITABLE SUBSTRATES:

Suitable for application to properly prepared:

- Concrete and cementitious surfaces
- Masonry
- Asphalt (*aged and stable*)
- Bitumen-based roofing felt
- Metal substrates (*with suitable compatible primer*)
- Wood
- Existing sound and compatible coatings, where fully bonded and suitable for overcoating

LIMITATIONS:

- Not intended or represented as a certified roofing or waterproofing membrane system or assembly
- Not intended for structural waterproofing, tanking or hydrostatic conditions
- Not intended as an exposed traffic-bearing or wearing surface unless incorporated within a suitably designed and protected system build-up
- Not intended for long-term exposed UV conditions unless protected or overcoated
- Not suitable for continuous immersion or prolonged standing water
- Project-specific suitability, detailing and protection requirements should be confirmed by the project consultant or contractor where required

TECHNICAL DATA SHEET

APPLICATION PROCEDURE:

APPLICATION CONDITIONS:

- Apply only under suitable site conditions and in accordance with the product instructions below

SURFACE PREPARATION

- All substrates must be structurally sound, clean, dry and free from contaminants
- Concrete should be sufficiently cured before application (*typically minimum 28 days*)
- Remove loose, friable or degraded material
- Existing coatings must be sound, well bonded and compatible
- Metal surfaces must be cleaned, de-rusted and appropriately primed
- Cracks, voids and surface defects must be repaired before application
- Porous substrates may require priming depending on condition

PRIMING

- Where required, prime porous or absorbent substrates using diluted product or a suitable compatible primer
- Allow primer to dry fully before applying the main coating

APPLICATION

- Apply by brush, roller, broom or spray equipment
- Apply the first coat to the prepared or primed surface, as appropriate
- Optional reinforcement may be embedded into the first coat where required
- Apply second coat after adequate drying
- First coat may be diluted with up to 20% clean water depending on substrate condition and porosity
- Second coat should normally be applied undiluted; where necessary, dilution should not exceed 10% with clean water
- Ensure a uniform, continuous coating film without pinholes or voids

CLEANING

- Clean tools and equipment with water immediately after use
- Remove spillages while still wet using water
- Once cured, material can only be removed by mechanical means

COVERAGE:

- Approx. 0.8–1.1 m²/kg for a two-coat application
- Actual dry film thickness achieved will vary depending on substrate profile, absorption, detailing and application method

DRYING & CURING:

PROPERTY	TYPICAL VALUE
Surface dry	Approx. 30–40 minutes
Recoat interval	8–10 hours under normal conditions
Tack-free time	≤ 12 hours
Water exposure	Protect from water until adequately cured (<i>typically 48 hours under normal conditions</i>)
Full cure	Typically, within 48 hours depending on site conditions. Performance develops progressively during curing
<i>(At 23°C and 50% RH, unless otherwise stated)</i>	

NOTE:

- Drying times may vary depending on substrate, application thickness, and environmental conditions

TECHNICAL DATA SHEET

TECHNICAL DATA:

PROPERTY	TYPICAL VALUE	TEST METHOD / BASIS
Appearance	Smooth, thick paste	Visual assessment
Colour	Black	Visual assessment
Specific gravity (20±2°C)	0.98 ± 0.10	Internal laboratory measurement
Viscosity (20±2°C)	50,000 – 70,000 cP	Internal laboratory measurement
Solid content	55 ± 5%	Formulation-based assessment
Tensile strength	Approx. 0.80 ± 0.20 MPa	Internal laboratory evaluation (indicative)
Elongation at break	> 1300%	Internal laboratory evaluation (indicative)
Water resistance (ingress / wet exposure)	Resistant to water ingress under normal service conditions	Internal laboratory evaluation (indicative)
Crack accommodation capability	Indicative value: up to approx. 10 mm under controlled laboratory conditions	Internal laboratory evaluation (non-accredited)
VOC content	Low VOC formulation	Formulation-based assessment

NOTES:

- All values are based on internal laboratory evaluation, formulation data, and selected industry reference methodologies where applicable
- Any references to ASTM, IS, or equivalent standards are indicative only and do not imply certified compliance unless explicitly stated in a separate approved test certificate
- Where BS EN or third-party accredited methods are not specifically referenced, any alignment should be considered directional and not equivalent to certified compliance
- Performance characteristics including crack accommodation, tensile strength, elongation, and water resistance are provided for guidance only and do not constitute system certification or guaranteed in-situ performance
- Actual performance will vary depending on substrate condition, surface preparation, application thickness, and environmental exposure conditions

PACKAGING:

- Supplied in 1 kg (sample pack), 5 kg and 20 kg re-sealable buckets
- Other pack sizes may be available on request

STORAGE & SHELF LIFE:

- Store in original unopened containers in a cool, dry and well-ventilated place
- Recommended storage temperature: +5°C to +35°C
- Protect from frost, excessive heat and direct sunlight
- Keep containers tightly closed when not in use
- Opened containers should be resealed promptly after use
- Shelf life: 18 months from date of manufacture when stored in original unopened containers under recommended conditions

USAGE PRECAUTIONS:

- Do not apply to frozen substrates or surfaces affected by standing water
- Do not apply during rain or where rain or condensation is expected before curing
- Do not apply when ambient or substrate temperatures are below 5°C
- Protect freshly applied coating from water exposure until adequately cured

TECHNICAL DATA SHEET

- In hot, dry or windy conditions, take precautions to avoid rapid drying
- Ensure adequate falls and drainage are present before application
- Keep out of reach of children

HANDLING:

- Refer to the latest Safety Data Sheet before use
- Wear suitable personal protective equipment (PPE), including gloves and eye protection
- Avoid contact with skin and eyes
- Ensure adequate ventilation during application and drying
- Wash hands thoroughly after handling

DISPOSAL:

- Dispose of contents and container in accordance with local regulations
- Avoid discharge into drains, watercourses and soil
- Packaging may be recycled after cleaning where permitted

IMPORTANT INFORMATION:

- **REGULATORY NOTE (UK):** This document is issued for technical information, evaluation, and sampling purposes only. Final regulatory status and any obligations arising under the Construction Products Regulations 2013 (as retained and amended in Great Britain) will depend on the product's final classification and intended use
 - Information contained in this document is given in good faith and is based on current knowledge, experience and testing carried out under controlled conditions. It is provided for general guidance only
 - The performance of the product depends on substrate condition, site preparation, application method, film build, curing conditions and other site variables beyond the manufacturer's control. Users must verify suitability for the intended application prior to use
 - This product is supplied as a liquid-applied surface coating for damp-proofing, maintenance, refurbishment and surface protection applications. It does not form a tanking system and is not presented as a structural waterproofing system, certified roofing system, engineered membrane assembly or project-specific specification unless expressly stated otherwise
 - Users should always refer to the latest Technical Data Sheet and Safety Data Sheet before use
-